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On motion of Professor Sayre, the above report was received and its discussion postponed till to-morrow.

The treasurer's report was called for, and read, as follows:

Balance on hand from last year.....	\$408 38
Interest on time deposits	8 30
Receipts from fees and dues	160 00
Receipts from sale of Transactions	13 90
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Total	\$590 78
Expenditures	104 80
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Balance on hand	\$455 98

Respectfully submitted.

F. W. BUSHONG, *Treasurer*.

On motion, the treasurer's report was received and referred to the auditing committee.

President Dains announced the following committees:

On program: Bushong, Groner, and Cardiff.

On press: Sayre, and Shirk.

On audit: Smith, and Havenhill.

On membership: Scheffer, McWharf, and Yates.

On time and place: Sternberg, Smith, and Wilson.

On nominations: Sayre, Yates, and Cardiff.

On resolutions: Wooster, Bailey, and Jones.

The committee on necrology, happily, does not seem to be needed, since no deaths of members have been reported this year.

The Academy next repaired to the University chapel, where a very interesting lecture was delivered by Prof. Frank E. Jones, of the University of Kansas. The lecture was entitled "A Tour of the Philippines." There were many lantern projections of photographs secured by the lecturer during a residence of several years in the islands.

WEDNESDAY, DECEMBER 29, 9 A. M.

The Academy convened pursuant to adjournment, and took up some suggestions from the secretary's report.

Professor Sayre advocated an increase in the executive committee, which would then act as a legislative committee. Professor Bushong advocated a small committee, and Professor Yates favored separate committees.

Professor Sayre moved that the committee be enlarged to

seven members and that it be called the executive council. Prof. A. J. Smith thought the legislature is apt to be suspicious of lobbying committees.

Several others participated in the discussion, and finally a motion prevailed to refer the matter to a committee of five, to be appointed by the chair, who should consider the matter of nominating the executive council and report later.

The president appointed Wooster, Cardiff, Bushong, Smith, and Havenhill as this committee.

The Academy next listened to the reading of papers from the following list, in the order as announced by program committee:

1. A Suggested Revision of the Terminology of Agriculture, L. C. Wooster.
2. An Esker near Mason, Mich., L. C. Wooster.
3. A Rare Mexican Cycad, W. B. Wilson.
4. Recent Methods in Organic Analysis, E. R. Groner.
5. Successful Termination of the Loco Weed Investigation, L. E. Sayre.
6. Analysis of Food Accessories under the Food and Drug Law, L. E. Sayre.
7. Physical Culture in Schools, J. H. Klopfer.
8. The Dance and Shamaic Performances of the Quileute Indians, A. B. Reagan.
9. Sketches of Indian Life and Character, A. B. Reagan.
10. Maxwell's Method of Comparing Electrostatic Capacity with Self-inductance, J. A. Shirk.
11. A New Geometrical Figure and its Possible Application, E. C. Warfel.
12. Preliminary Note on Measuring the Speed of Photographic Shutters, H. I. Woods.
13. Pollution of Domestic Ground Water Supply, S. J. Crumbine.
14. Tools and Toys, B. B. Smyth.
15. Milk Sickness in Kansas, L. C. R. Smyth.
16. The Flora of Minima Hill, L. C. R. Smyth.
17. An Embryonic Plesiosaur Propodial, R. L. Moodie.
18. Provisional List of the Flora of Kansas, B. B. Smyth, John H. Schaffner, and Lumina C. Riddle Smyth.
19. Is the Dakota Formation Upper or Lower Cretaceous? J. E. Todd.
20. Further Notes on Pleistocene Drainage, J. E. Todd.
21. An Unusual Walnut (?) I. D. Cardiff.
22. Fifty Years of Evolution, A. H. Thompson.
23. Additions to the List of Kansas Coleoptera for 1909, W. Knaus.
24. Note on the Food of Bothrotes Knausii Caley, W. Knaus.
25. Notes on Kansas Coleoptera, W. Knaus.
26. Kansas Coleoptera—the Families Throscidæ, Lampyridæ, Malachidæ, Clevidæ, Cupescidæ, Cioidæ, Melandoyidæ, Œdemeridæ, Anthicidæ, Pyrochroidæ and Rhipiphoride (five minutes), W. Knaus.

27. Changes in the Cottonwood Limestone South of Cottonwood Falls, J. A. Yates.
28. On the Coloring Matter in Fruits, E. H. S. Bailey, and E. L. Tague.
29. On the Occurrence of Manganese in Waters, C. C. Young.
30. A Comparison of Some Methods of Making Thymine, D. F. McFarland.
31. On Food Adulterations, H. L. Jackson.
32. The Prairie Dog Situation in Kansas, T. H. Scheffer.
33. Investigating the Mole, T. H. Scheffer.
34. Catalytic Tests and Treatment of Systematic Phthisis, W. P. McCartney.
35. Mid-continent Petroleum, F. W. Bushong.
36. Some Difficulties of Arsenic Tests, F. B. Dains.
37. In the Niobrara and Laramie Cretaceous, C. H. Sternberg.
38. Notes and Observations on Equisetum, I. D. Cardiff.

Doctor Wooster read paper No. 1, and it was discussed by Dains, Sayre, Cardiff and Wilson.

Prof. C. C. Young read paper No. 29. This was discussed by Dains, Sayre, Lovewell, Smith and Sternberg.

Prof. T. H. Scheffer read No. 33, and it was discussed by Sayre, Lovewell and Young. The latter said he had kept a mole in captivity for three months, feeding it on bread and milk.

Doctor Cardiff read No. 21. Discussed by Scheffer.

Doctor Dains read No. 36. Discussed by Bailey.

Session adjourned for lunch.

1:30 P. M.

The committee appointed to consider the matter of an executive council reported their conclusion that such a council is advisable, and recommended that it consist of the present executive committee and four others to be appointed by the Academy. Report adopted.

It was moved and carried that this committee bring in four additional names for the executive council and report them at the evening session.

Professor Sayre read No. 6. Discussed by Willard, Sternberg and Bailey.

Prof. H. L. Jackson next read paper No. 31. Discussed by Dains, Scheffer and Wooster. Professor Sayre said the chemist cannot always decide whether or not certain food preparations are injurious. There is much self-deception, as when a woman thought she made six pounds of butter out of

three pounds by hydrating it with water. Willard, Sayre and Bailey spoke of the contamination of canned foods from zinc tops, porous porcelain and lacquers.

Doctor Crumbine read No. 13, and it was discussed by Dains, Wooster, Bushong, Cardiff and Jackson. In view of the importance of these papers it was voted that Doctor Crumbine be requested to secure the publication of papers Nos. 13 and 31 in the Board of Health Bulletin.

A. J. Smith told how to construct a well that would be free from bacteria. Doctor Wooster said that typhoid bacteria may come from cisterns, and Professor Bailey suggested that often these cisterns had cracks admitting ground water.

Professor Bailey read No. 28, which was discussed by Sayre.

Mrs. Smyth read papers Nos. 15 and 16, which were discussed by Willard, Cardiff, Bailey, Dains and Crumbine.

Professor Cardiff presented No. 38. Discussed by Mrs. Smyth.

Professor Scheffer read No. 32. Discussed by Miss Meeker.

T. H. Scheffer reported, for the membership committee, the following applications for membership, and recommended their acceptance:

Benj. P. Baker, landscape gardener, Topeka.

O. P. Dellinger, professor of biology, M. T. S., Pittsburg.

H. H. King, assistant professor of chemistry, Agr. Coll., Manhattan.

Dr. S. T. Millard, physician and surgeon, Topeka.

Merle M. Moore, student, Ottawa.

Rev. S. B. Peabody, clergyman (ornithologist), Blue Rapids.

S. Eber Price, president Ottawa University, Ottawa.

Eulalia E. Roseberry, teacher of physiography, M. T. S., Pittsburg.

H. J. Waters, president State Agriculture College, Manhattan.

J. B. Whelan, assistant professor of chemistry, K. S. A. C., Manhattan.

J. A. Wilson, B. S., teacher in high school, Ely, Minn.

T. M. Wood, instructor, M. T. S., Pittsburg.

C. C. Young, chemist State Water Survey, Lawrence.

By unanimous consent, the secretary was instructed to cast the ballot of the Academy for the names reported, and they were accordingly elected to membership in the Academy. Edward Bartow, Ph. D., director of Water Survey, Urbana, Ill., became a life member by completing the payment of twenty dollars for dues.

The auditing committee reported that they had examined the treasurer's report and found it correct. Voted that this report be adopted.

At six o'clock, by invitation of Ottawa members and friends,

the members and guests repaired to Charlton cottage, where an elegant banquet had been prepared by Miss Stickler, who was helped in serving by an able corps of assistants. The rooms were tastefully decorated, and in all respects it was an occasion of great pleasure to the Academy. After partaking of the bountiful repast the Academy received an address of welcome from Doctor McWharf, and the toastmaster, Prof. W. B. Wilson, called on Professors Dains, Willard, Sayre, Bailey, Doctor Crumbine, Doctor Wooster, President Price and Mrs. Smyth, who pleasantly and wittily responded to the various toasts offered.

After the banquet the participants, returning to the chapel, listened to the retiring president's address.

The subject chosen was "Silliman, Hare and Cook, and their Influence on American Science." Pictures were thrown on the wall of these pioneer teachers, as well as of other great chemists of their time and earlier. Professor Lovewell gave personal reminiscences of the elder Silliman, whom he met at Yale more than fifty years ago, and gave some account of the science teaching of those days.

The committee on nominations reported the following recommendations for officers of the Academy for the ensuing year:

For president, F. B. Dains, Topeka.

For vice president, J. M. McWharf, Ottawa.

For vice president, A. J. Smith, Emporia.

For treasurer, F. W. Bushong, Lawrence.

For secretary, J. T. Lovewell, Topeka.

By unanimous vote of the Academy, the rules were suspended and Professor Bailey cast the ballot of the Academy for the officers as reported by the committee.

THURSDAY—9 A. M.

The Academy resumed their session and listened to an able paper, No. 10, by Prof. J. A. G. Shirk.

Prof. B. B. Smyth, as a substitute for No. 14, exhibited a white-backed fox squirrel, which brought out accounts of other freaks of similar character in the color of animals.

Professor Bushong (No. 35) gave a further account of his researches in the mid-continent petroleums.

Professor Yates read No. 27, and it was discussed by Wooster, B. B. Smyth and A. J. Smith, who did not agree with the writer in thinking the upper layer to be chalk.

Professor Sayre (No. 5) says he has killed animals by feeding them plants which contain barium. He thinks by sprinkling the hay from loco plants with Glauber's salt it would render the barium constituent insoluble and make a safe and valuable fodder. Discussed by Bushong, Wooster, Smith, Dains and Whelan.

Doctor Wooster read No. 2, which was discussed by Dains and Shirk.

Doctor McFarland read No. 36. Discussed by Bushong, Wooster, Sayre and Whelan.

Professor Groner (No. 4) spoke of recent methods of organic analysis. Discussed by Dains and Bushong.

On motion of Professor Sayre, it was voted that copy of all papers to be published in the Transactions should be in the hands of the secretary within two months from this date.

The committee on time and place reported Topeka as the place for next meeting of the Academy, and the time December 27, 1910, unless the executive council find good reason for changing this date.

Professor McFarland suggested an Academy medal to be awarded for valuable scientific work. This was discussed by Bushong, Whelan and Mrs. Smyth. It was voted that a committee be appointed by the president to take this matter into consideration and report at a future meeting.

The committee on resolutions reported as follows:

Resolved, That we commend the practice of sending to the secretary with its title the time that will be required in reading each paper.

Resolved, That the secretary be requested to compile a list of members of the Academy, appending to each name academic titles and the special line of subjects in which the member is working; also his latest post-office address.

Resolved, That we give hearty thanks to the faculty of Ottawa University and to the citizens of Ottawa for the convenient rooms and the excellent dinner furnished to members of the Academy, and for other social courtesies.

Resolved, That we offer to the local newspapers our thanks for their full reports of the meetings of the Academy.

By unanimous vote the report was adopted.

It was voted that papers Nos. 7, 8, 9, 11, 12, 17, 18, 19, 20, 22, 23, 24, 25 and 26 be read by title and referred to committee on publication.

The business being now finished the president declared the forty-second annual session of the Academy ended.